Clinical Materials **14** (1993) 339–341

CONTENTS OF VOLUME 14

Number 1

Porous Implants for Knee Joint Meniscus Reconstruction: A Preliminary Study on the Role of Pore Sizes in Ingrowth and Differentiation of Fibrocartilage 1

J. KLOMPMAKER, H. W. B. JANSEN, R. P. H. VETH, H. K. L. NIELSEN, J. H. DE GROOT & A. J. PENNINGS (The Netherlands)

Mechanical Properties of a Ti-6Al-4V Dental Implant Produced by Electro-Discharge Compaction 13

M. I. LIFLAND, D. K. KIM & K. OKAZAKI (USA)

A New Biodegradable Matrix as Part of a Cell Seeded Skin Substitute for the Treatment of Deep Skin Defects: A Physico-chemical Characterisation 21

G. J. BEUMER, C. A. VAN BLITTERSWIJK, D. BAKKER & M. PONEC (The Netherlands)

Glutaraldehyde Crosslinking of Human Dermis: A Factorial Assessment of the Crosslinking Protocol 29

D. M. SIMMONS & J. N. KEARNEY (UK)

The Elastic Moduli of Enamel and Dentine 35

J. S. REES & P. H. JACOBSEN (UK)

Dentine Microstructure in Hypoplastic Deciduous Teeth by Collagenase Etching 41

J. E. MEADS, M. GREEN & D. H. ISAAC (UK)

Ionogran™—An Ionomeric Micro Implant in Bone Tumour Reconstruction. A Clinical Evaluation. 49

B. G. P. LINDEQUE & L. M. JONCK (South Africa)

The Effect of Ion Implantation on Cellular Adhesion 57

C. R. HOWLETT, M. D. M. EVANS, K. L. WILDISH, J. C. KELLY, L. R. FISHER, G. W. FRANCIS & D. J. BEST (Australia)

Review Paper

Biodegration and Bioresorption of Calcium Phosphate Ceramics. 65

R. Z. LEGEROS (USA)

Calendar of Events 89

Number 2

The Presence of a Synovial Layer at the Bone–Implant Interface: An Immunohistological Study Demonstrating the Close Similarity to True Synovium . . 91

P. A. LALOR (USA) & P. A. REVELL (UK)

Response of Human Cancellous Bone to Identically Structured Commercially Pure Titanium and Cobalt Chromium Alloy Porous-Coated Cylinders 101

A. A. HOFMANN (USA)

Evaluation of Wear in an All-Polymer Total Knee Replacement. Part 1: Laboratory Testing of Polyethylene on Polyacetal Bearing Surfaces 117

H. A. McKELLOP (USA), T. RÖSTLUND (Sweden) & G. BRADLEY (USA)

Clinical Materials **14** (1993)—© 1993 Elsevier Science Publishers Ltd, England

Evaluation of Wear in an All-Polymer Total Knee Replacement. Part 2: Clinical Evaluation of Wear in a Polyethylene on Polyacetal Total Knee 127
G. W. BRADLEY (USA), M. A. R. FREEMAN, M. A. TUKE (UK) & H. A. McKELLOP (USA)

A Comparison of the Dimensional Accuracy of Microwave and Conventionally Polymerized Denture Base Materials 133
A. HARRISON, R. HUGGETT, A. ZISSIS & R. W. VOWLES (UK)

The Repair of Inguinal Hernias using Carbon Fibre Patches — A Five-Year Follow-up 139
R. J. MINNS, M. B. CLAQUE, R. WARD, P. J. CULLEN & G. H. DUNSTONE (UK)

The Degradation of Glycolic Acid/Lactic Acid Copolymer *In Vivo* 145
S. P. ZHONG, P. J. DOHERTY & D. F. WILLIAMS (UK)

Review Paper

Bioactive Glasses and Glass-Ceramics 155
R. D. RAWLINGS (UK)

Calendar of Events 181

Number 3

The Effect of Applied Strain on the Degradation of Absorbable Suture *in vitro* 183
S. P. ZHONG, P. J. DOHERTY & D. F. WILLIAMS (UK)

Cytotoxicity and Capability of Activating Hemocoagulation of Polybutyleneterephthalate Filters 191
E. CENNI, G. CIAPETTI, L. SAVARINO, S. STEA, D. CAVEDAGNA, G. FALSONE, G. MARI & A. PIZZOFERRATO (Italy)

Variations in Latex Protein Profiles 199
B. R. FISHER, V. J. TOMAZIC, T. J. WITHROW & L. E. MATESIC (USA)

New Implant Designs for Bioresorbable Devices in Orthopaedic Surgery 207
G. O. HOFMANN & F. D. WAGNER (Germany)

Fluoride Release from Dual-Cured Glass–Ionomer Liners: An *in vitro* Study 217
M. RUSMAH (Malaysia), J. CHAN, S. WEI & S. LEE (Hong Kong)

Clinical and Animal Experiments on Stress Corrosion of Titanium Miniplates 223
K. BESSHO & T. IIZUKA (Japan)

Studies on the Tissue Adhesive Capability to Titanium by Dynamic Wettability Test and Cell Attachment, *in vitro* 229
D. KAWAHARA, Y. KIMURA, M. NAKAMURA & H. KAWAHARA (Japan)

Incorporation of Polymerized Methylmethacrylate and c.p. Titanium Implants in the Rabbit: A Short and Long Term Light Microscopic Study 235
P. MORBERG, T. ALBREKTSSON & A. WENNERBERG (Sweden)

Review Papers

The Characteristics and Performance of Dentine Bonding Agents 243
S. A. M. ALI & D. F. WILLIAMS (UK)

Surface Modification of Blood Contacting Polymers by Poly(ethyleneoxide) 255
M. MORRA, E. OCCHIELLO & F. GARBASSI (Italy)

Calendar of Events 267

Corrigendum 269

Number 4

Structural Analysis of a Collagen–Polyester Composite Vascular Prosthesis 271
J. F. WHITE, J. A. WERKMEISTER, G. A. EDWARDS & J. A. M. RAMSHAW (Australia)

Effect of Hydroxyapatite Containing Glass Coating on the Bonding between Bone and Titanium Implants 277
T. ISHIKAWA, H. ITOH, S. MARUNO, H. IWATA & S. BAN (Japan)

Corrosion Resistance of Titanium CP in Saline Physiological Solutions with Calcium Phosphate and Proteins 287
S. R. SOUSA & M. A. BARBOSA (Portugal)

The Effect of Transfer Film and Surface Roughness on the Wear of Lubricated Ultra-High Molecular Weight Polyethylene 295
J. R. COOPER, D. DOWSON & J. FISHER (UK)

Review Paper

Complement Activation and Cytokine Production as Consequences of Immunological Bioincompatibility of Extracorporeal Circuits 303
G. JAHNS, N. HAEFFNER-CAVAILLON (France), U. E. NYDEGGER (Switzerland) & M. D. KAZATCHKINE (France)

Calendar of Events 337